



## PHOTOGRAPHIC LENS

**Patent number:** JP2002228922  
**Publication date:** 2002-08-14  
**Inventor:** KAWAKAMI ETSURO  
**Applicant:** CASIO COMPUT CO LTD  
**Classification:**  
- international: G02B13/00; G02B13/18; G02B13/22  
- european:  
**Application number:** JP20010023544 20010131  
**Priority number(s):**

**Also published as:**

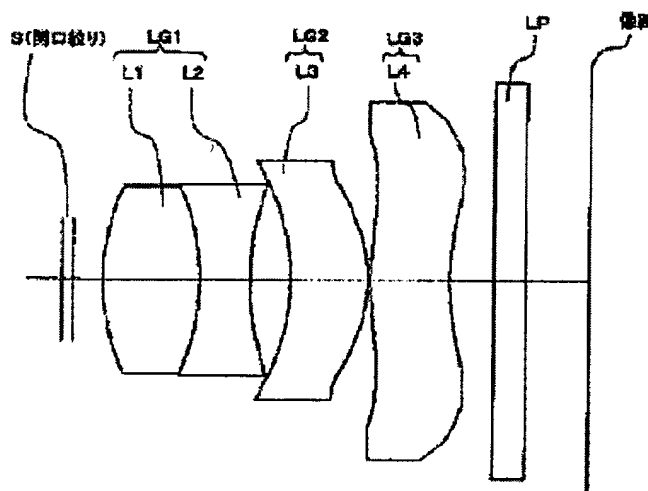
 US6476982 (B1)  
 US2002181121 (A1)

[Report a data error here](#)

### Abstract of JP2002228922

**PROBLEM TO BE SOLVED:** To obtain a compact photographic lens having high resolution and composed of small number of lenses.

**SOLUTION:** This photographic lens is composed of an aperture diaphragm which is arranged nearest to an object side, and a 1st lens group, a 2nd lens group and a 3rd lens group which are arranged in this order from the object side. The 1st lens group is composed of a 1st lens (a positive lens) having positive refractive power and a 2nd lens (a negative lens) constituted to be joined with or separated from the 1st lens and having negative refractive power in this order from the object side. The 2nd lens group is composed only of a 3rd lens being a positive lens, at least one refractive surface of which is made aspherical. The 3rd lens group is composed only of a 4th lens being a negative lens, at least one refractive surface of which is made aspherical.



Data supplied from the **esp@cenet** database - Patent Abstracts of Japan